# **BEST AVAILABLE COPY**

A-71386-8

Replacement Sheet

1/32



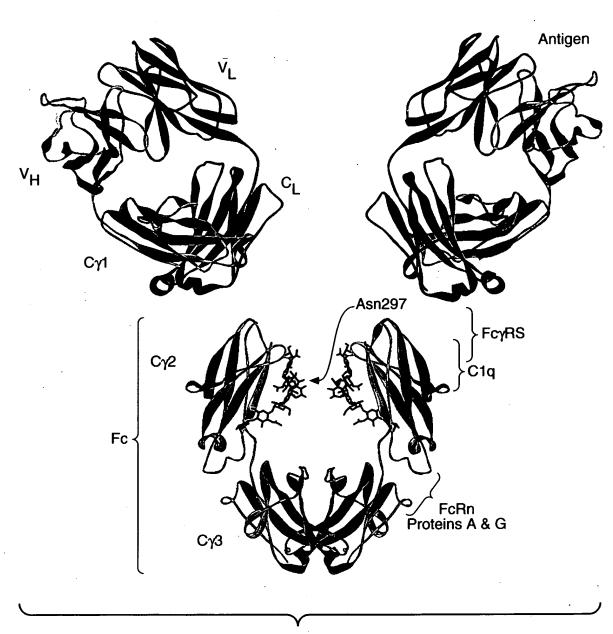


FIG.\_1

A-71386-8

Replacement Sheet

2/32

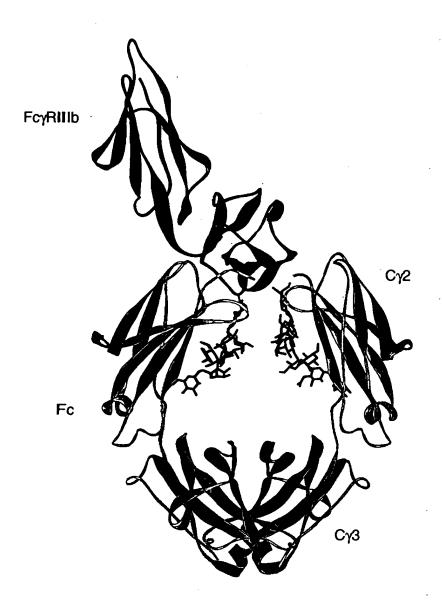


FIG.\_2

\* A.

SEQ ID NO: 1 VH1-> OVOLOESGPGLVRPSOTLSLTCTVSGFTFTDFYMNWVRQPPGRGLEWIGFIRDKAKGYTT EYNPSVKGRVTMLVDTSKNQFSLRLSSVTAADTAVYYCAREGHTAAPFDYWGOGSLVTVS Cγ1-> SASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQS HINGE-> SGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLG KABAT Cγ2-> GPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEOY ?Cγ3?-> NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRD 

430 440 450 WQQGNVFSCSVMHEALHNHYTQKSLSLSPGK 420 430 440

FIG.\_3

#### SEQ ID NO: 1

FIG.\_3

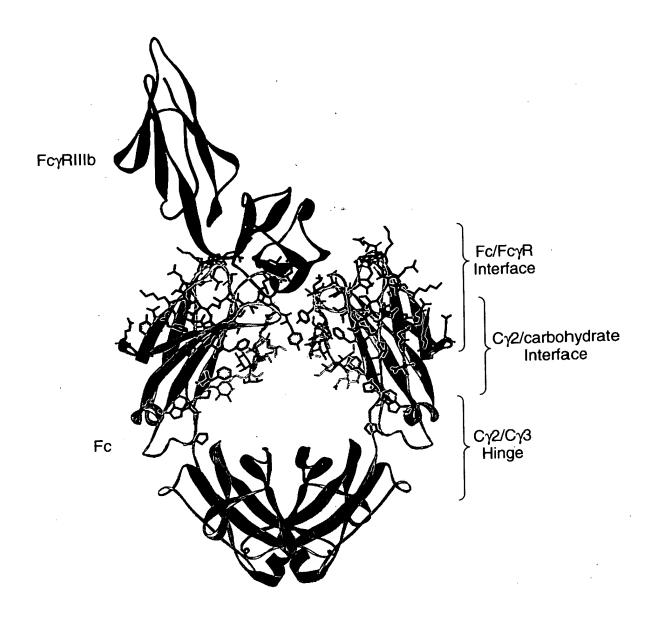


FIG.\_4

SEQ ID NO: 2

 $\texttt{DKTHTCPPC} \underline{\textbf{P}} \texttt{AP} \underline{\textbf{ELL}} \texttt{GGP} \underline{\textbf{SVFL}} \underline{\textbf{FPP}} \texttt{K} \underline{\textbf{P}} \texttt{KDTLMISRTPEVTC} \underline{\textbf{VVVDVS}} \texttt{HEDP} \underline{\textbf{EVKFN}} \underline{\textbf{WY}} \texttt{VD}$  $\texttt{G} \lor \underline{\texttt{E}} \lor \texttt{H} \texttt{N} \texttt{A} \lor \texttt{K} \bot \texttt{P} \texttt{R} \underline{\texttt{E}} \underbrace{\texttt{V}} \texttt{Y} \texttt{N} \underline{\texttt{V}} \lor \texttt{S} \lor \texttt{L} \bot \texttt{V} \bot \texttt{H} \texttt{Q} \bot \texttt{D} \underline{\texttt{W}} \texttt{L} \texttt{N} \bm{\texttt{G}} \lor \underline{\texttt{K}} \bot \texttt{E} \bot \texttt{E}$ GQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDS DGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

FIG.\_5

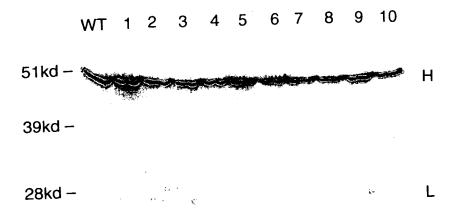
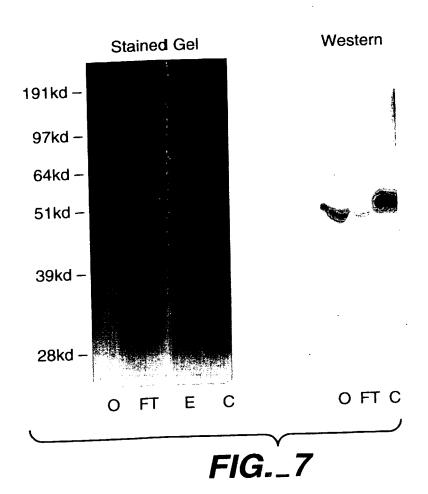
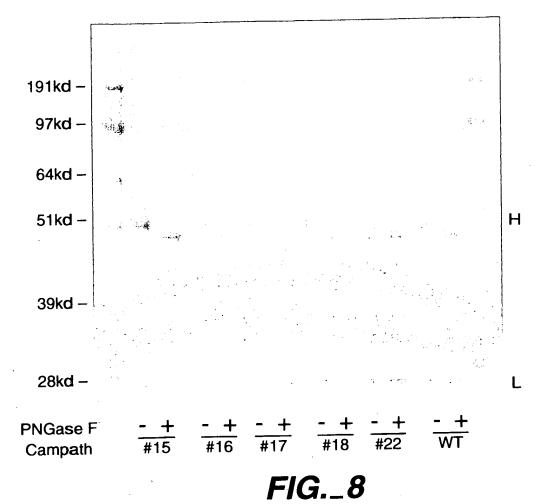
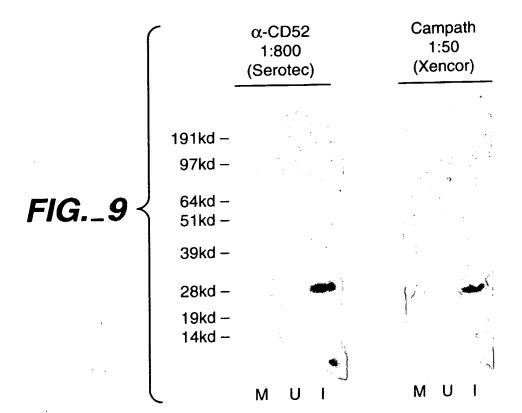


FIG.\_6







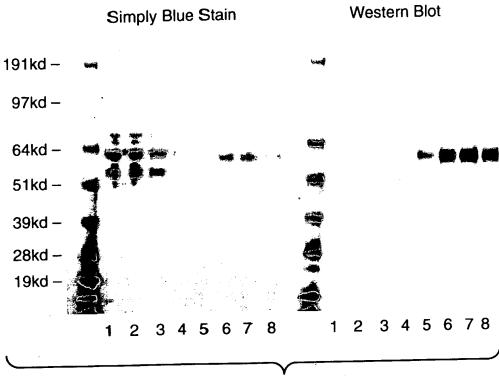


FIG.\_10

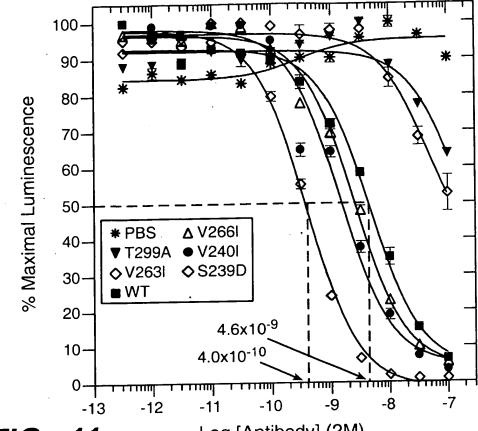
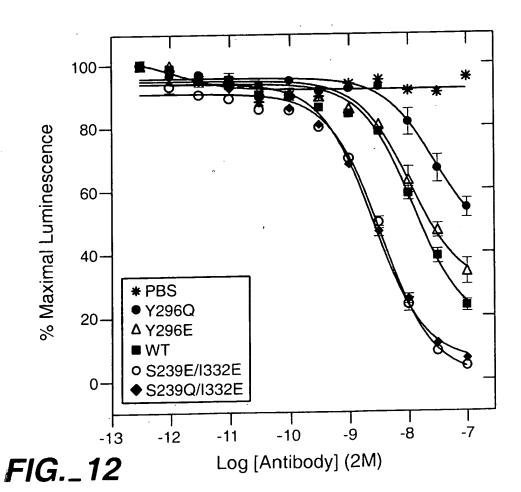
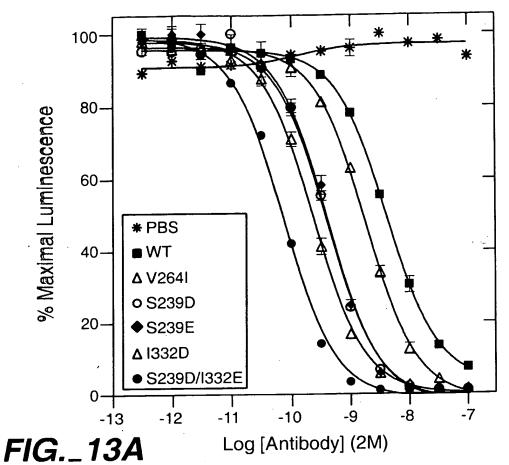
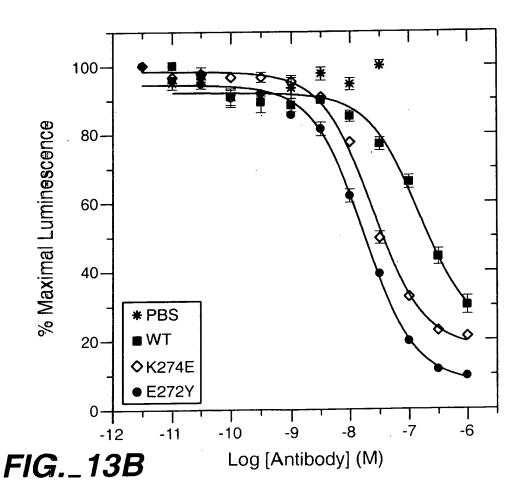


FIG.\_11

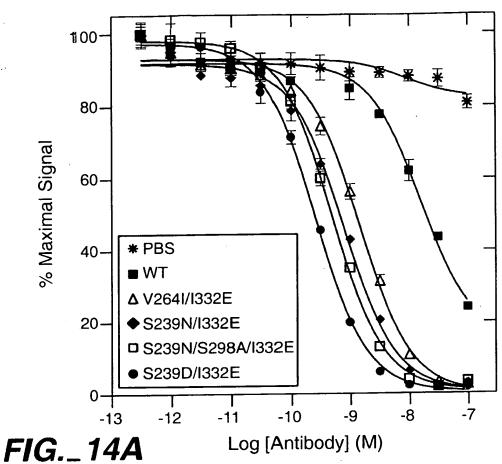
Log [Antibody] (2M)

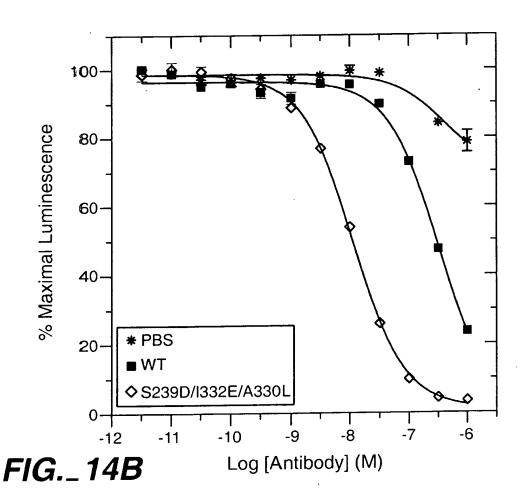




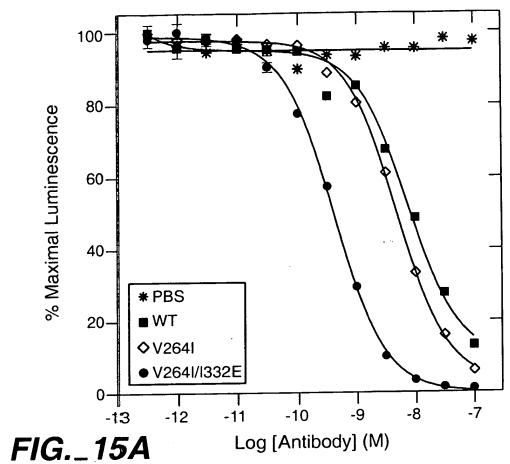


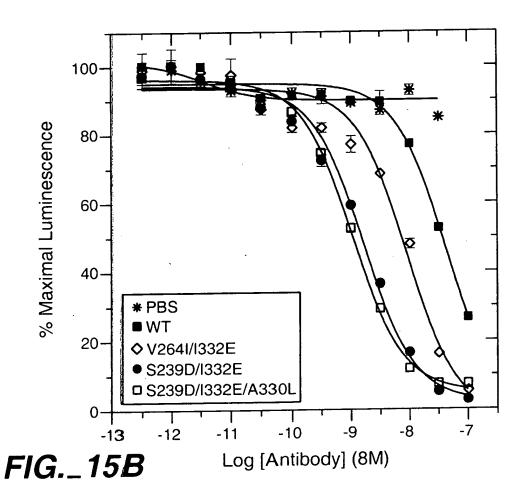












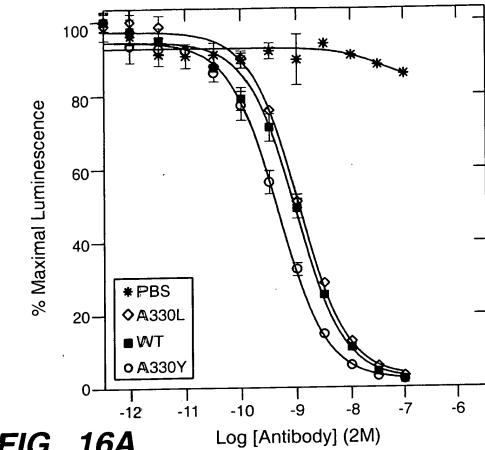
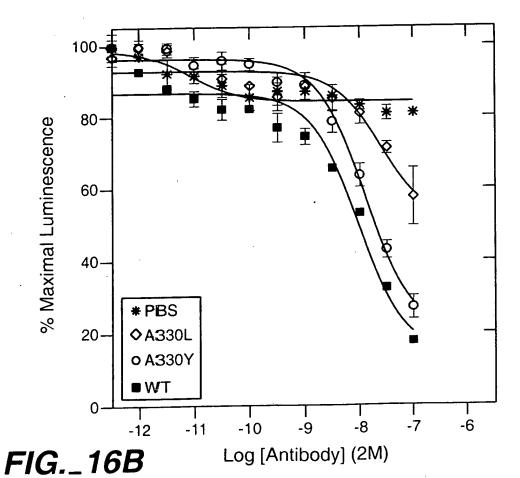
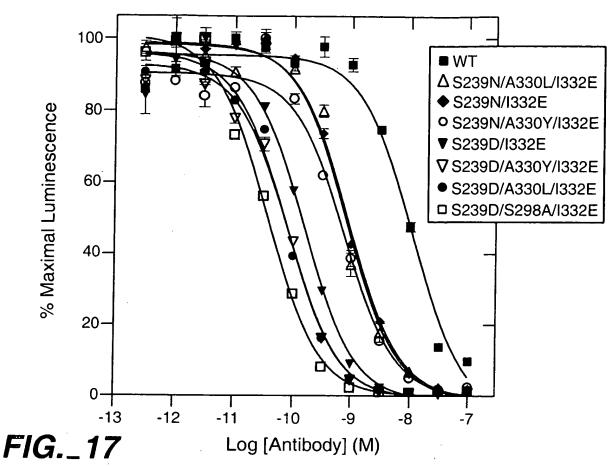
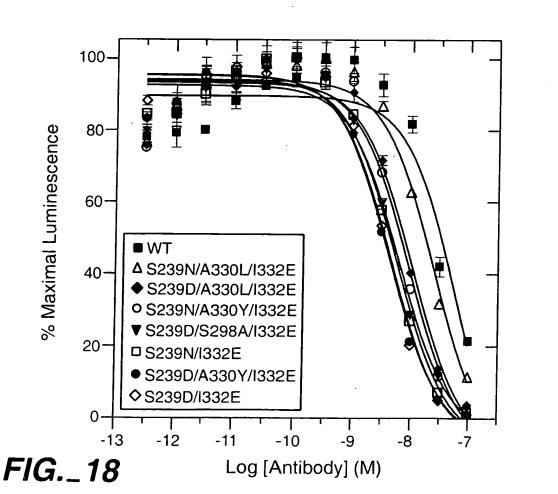


FIG.\_16A

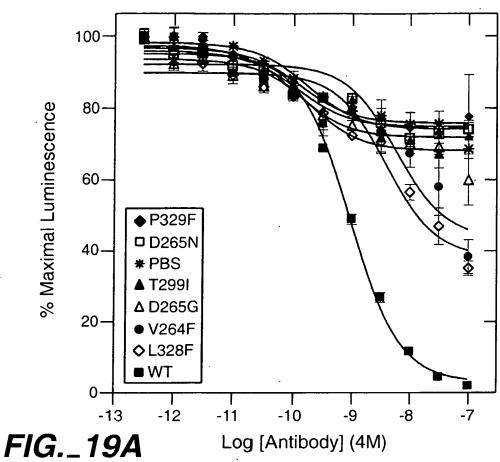


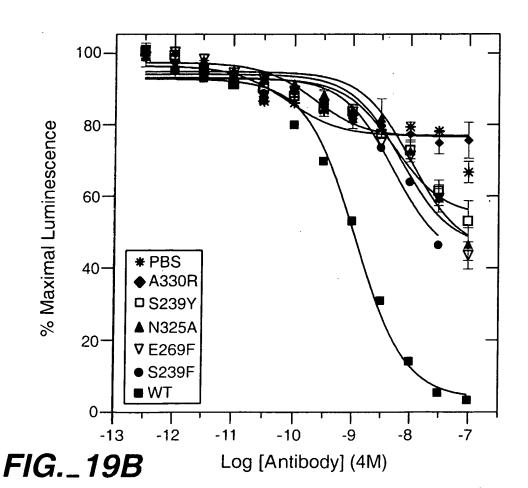




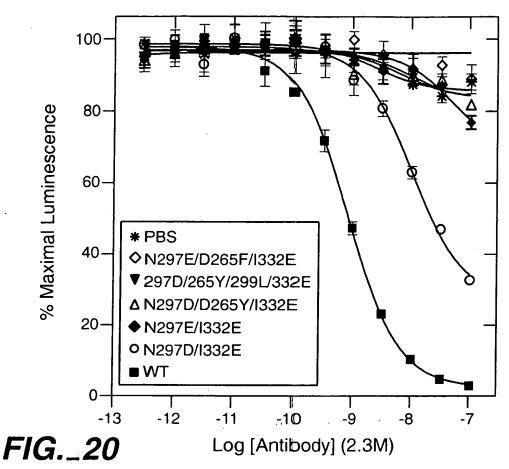


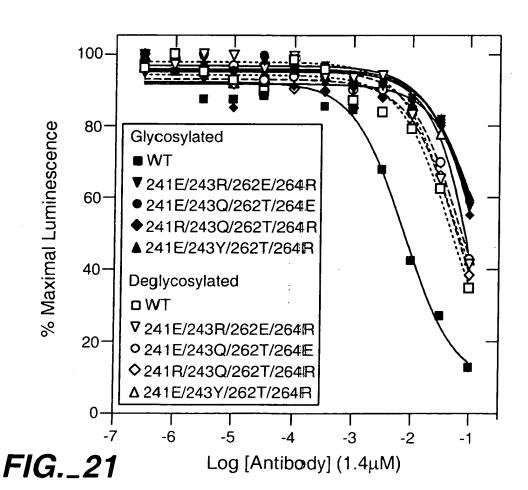




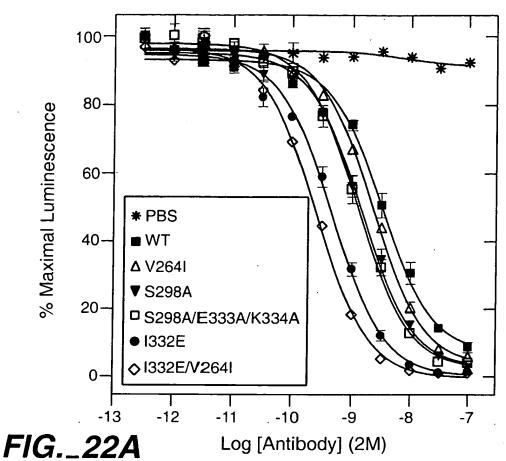


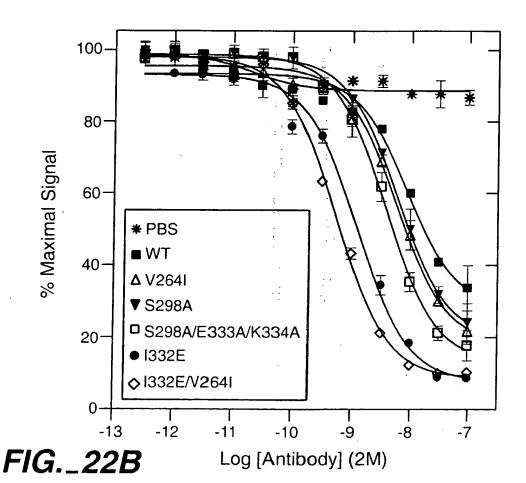


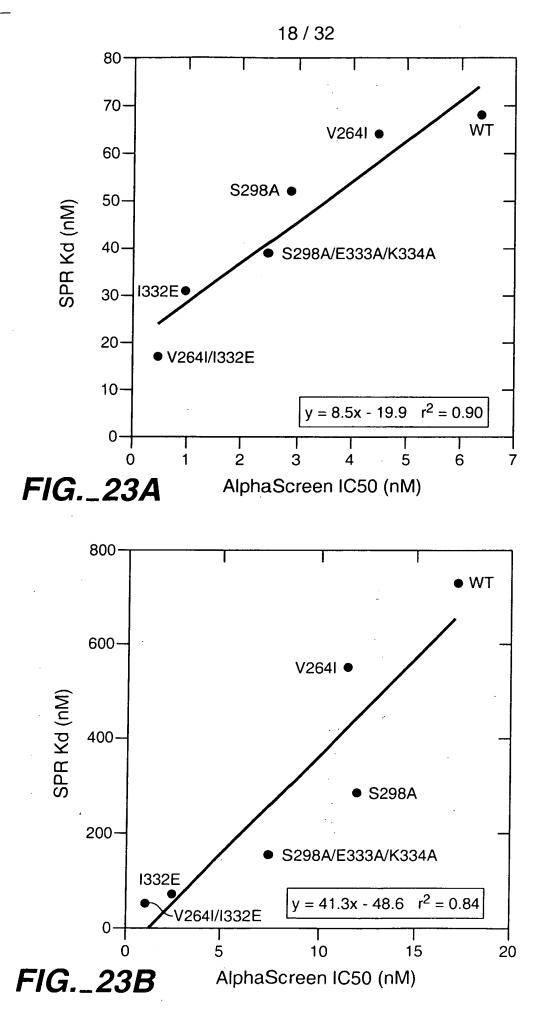


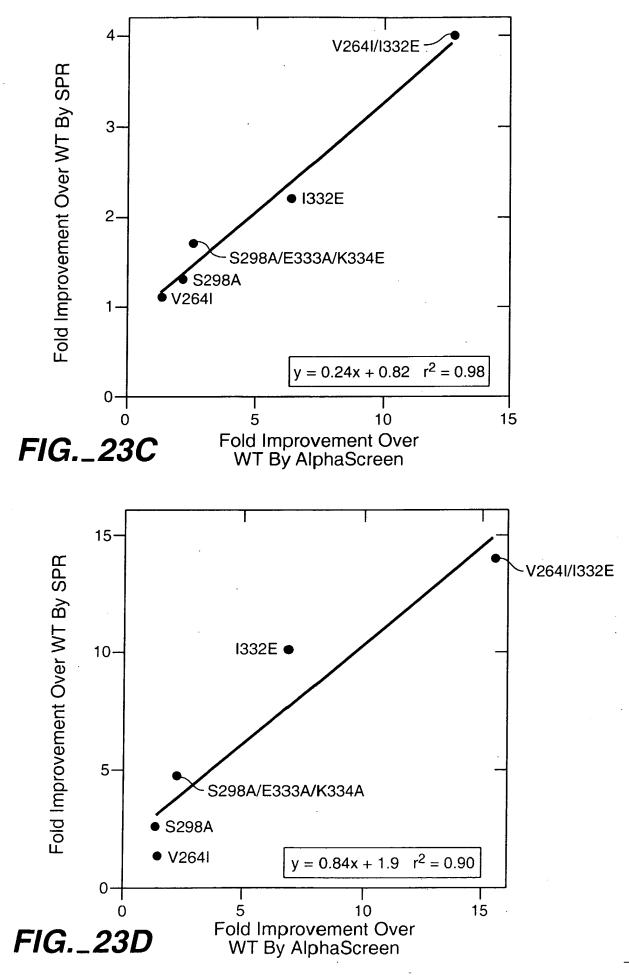














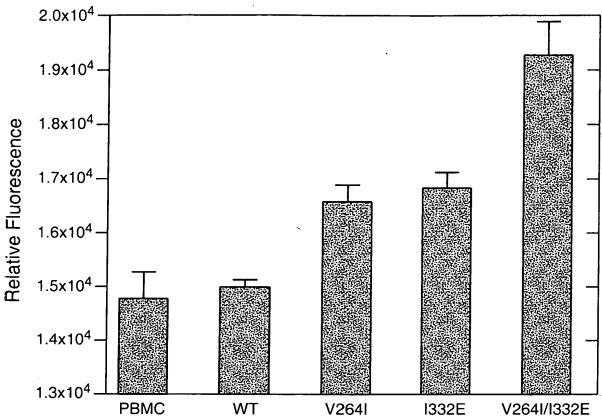
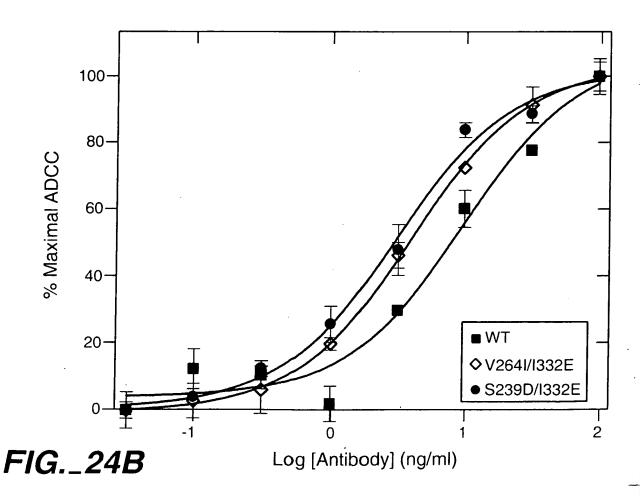


FIG.\_24A



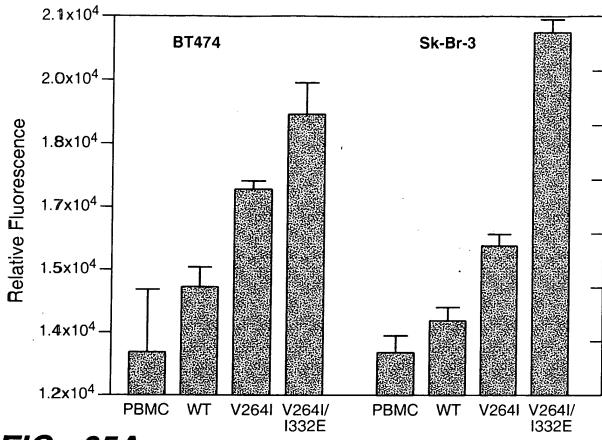
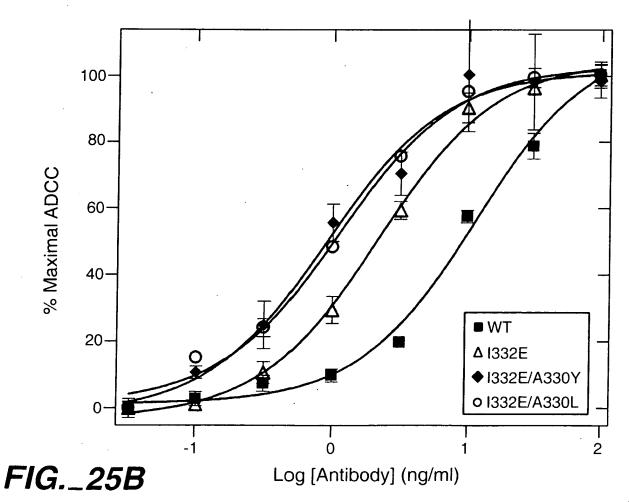
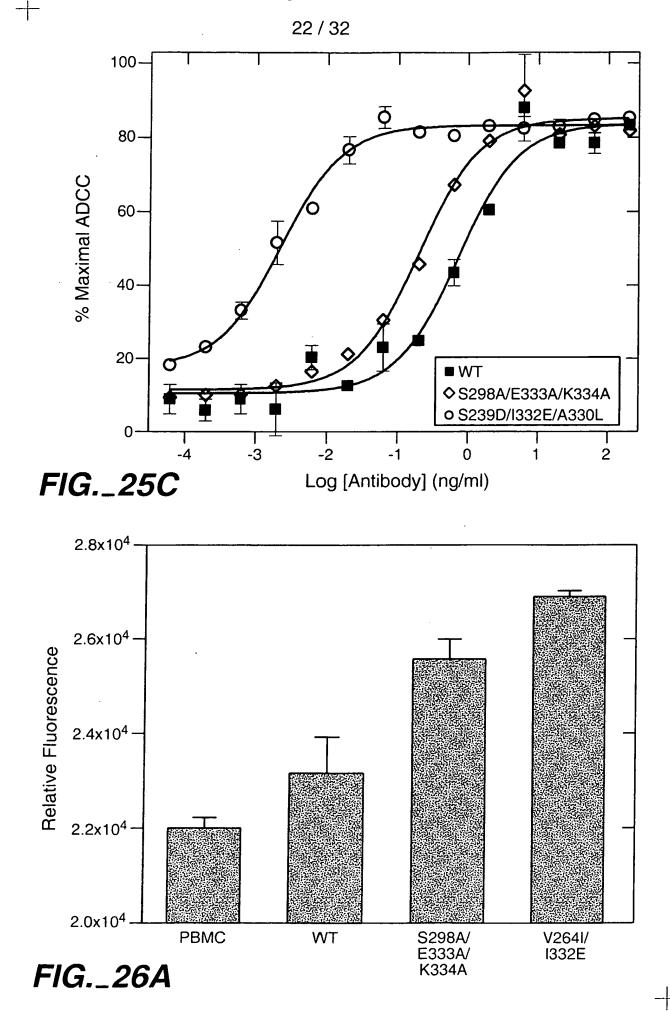
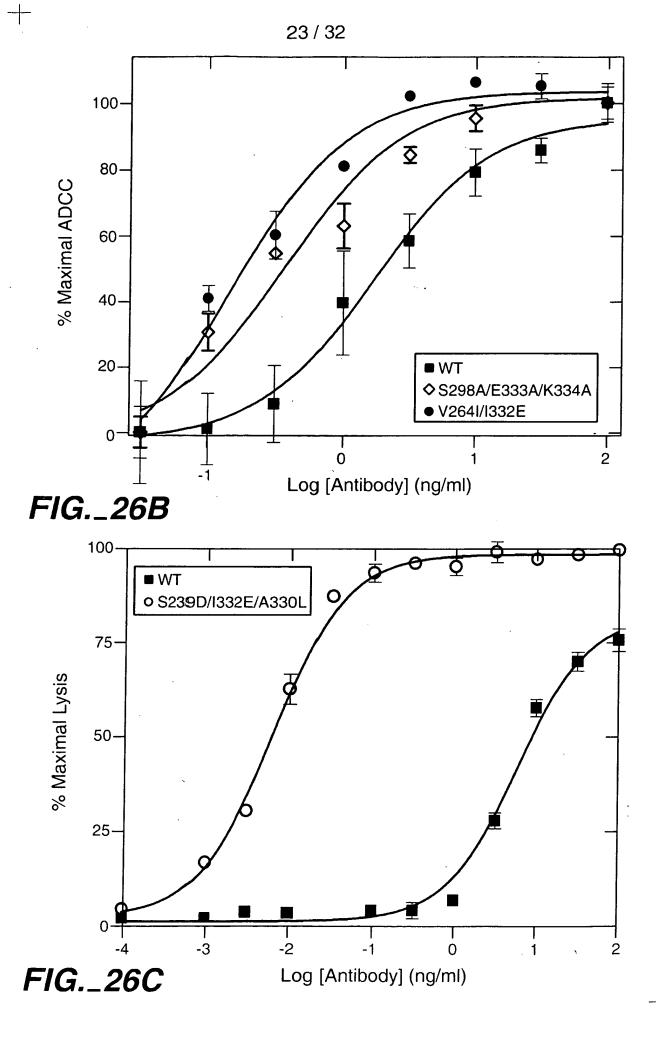
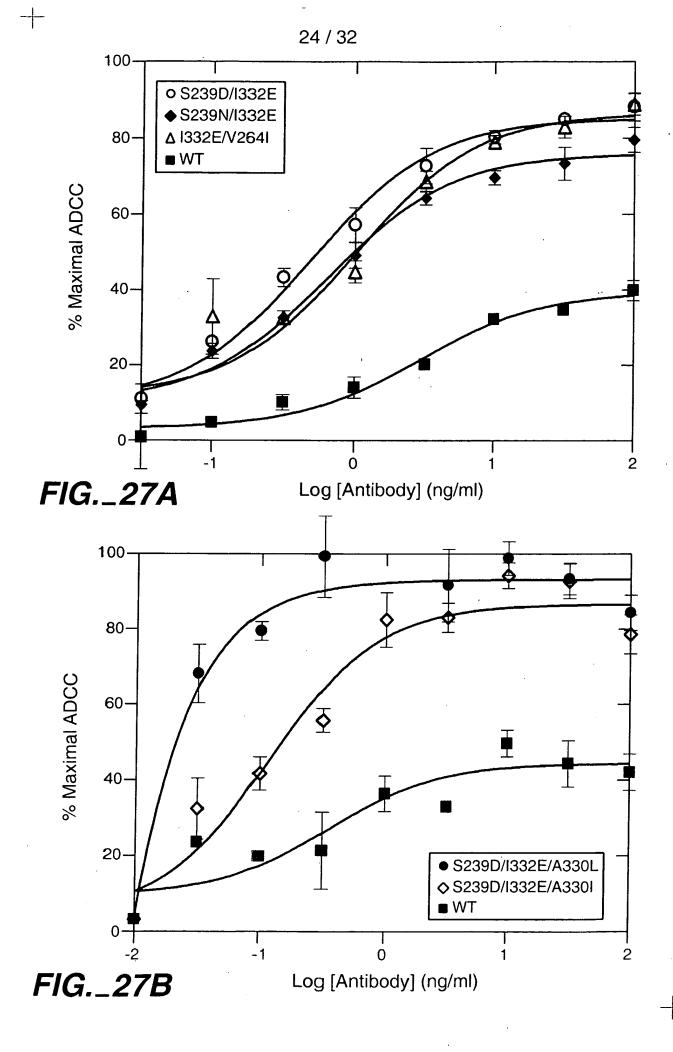


FIG.\_25A











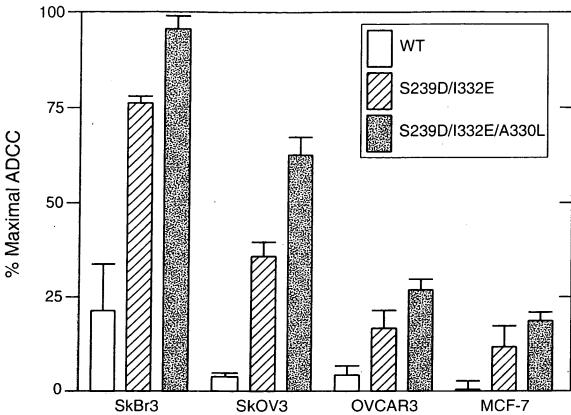
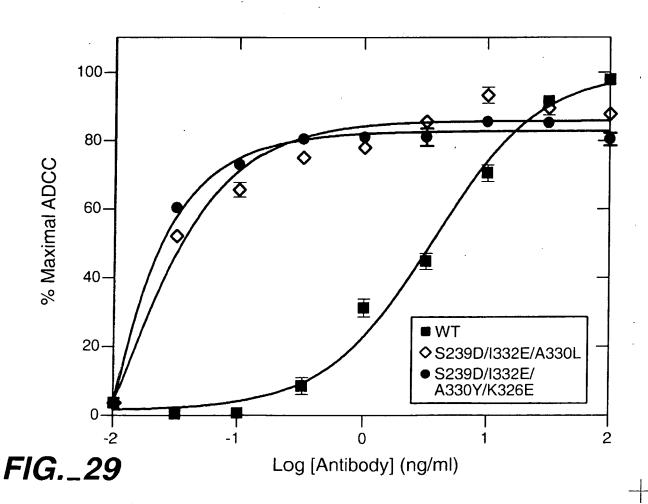
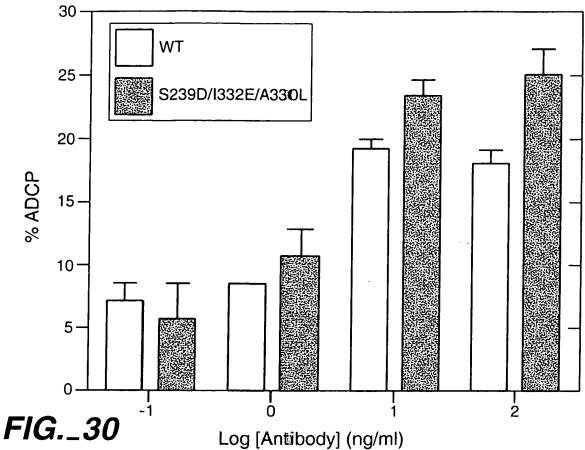


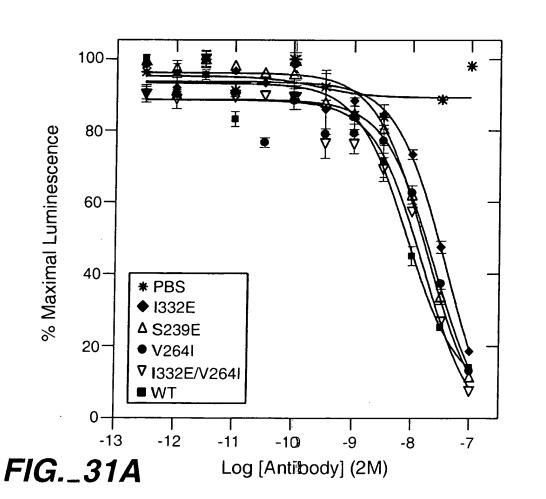
FIG.\_28

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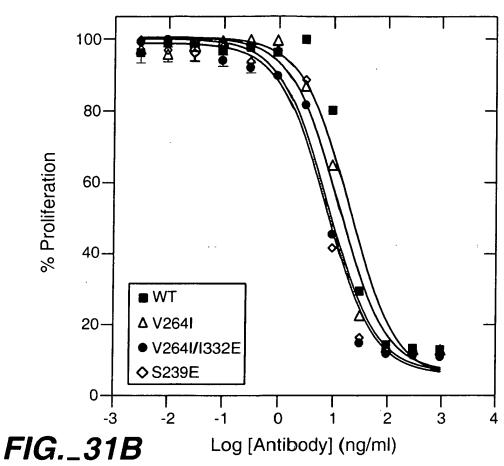


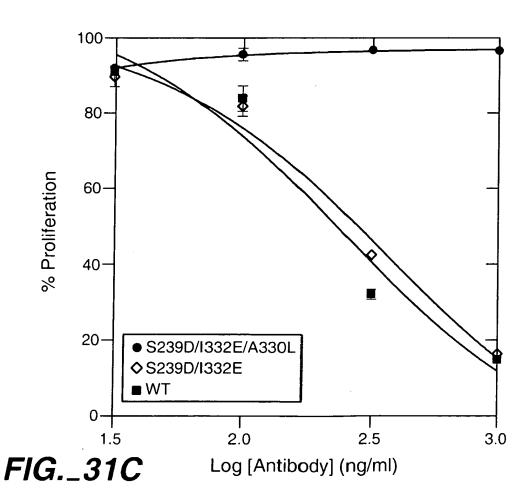


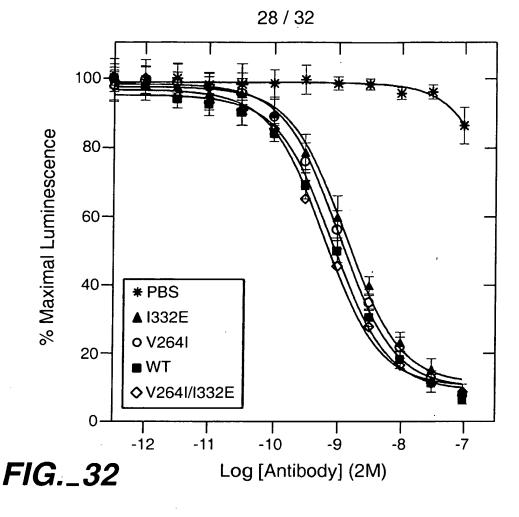


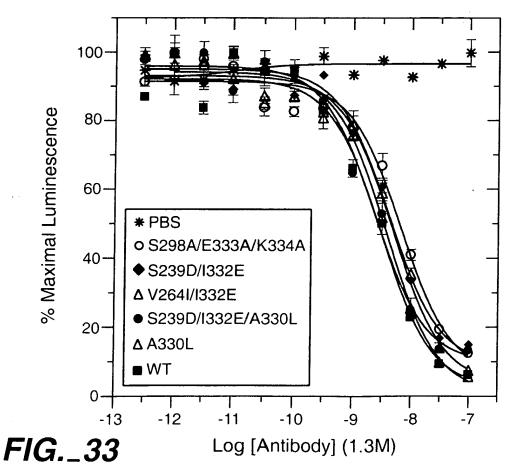


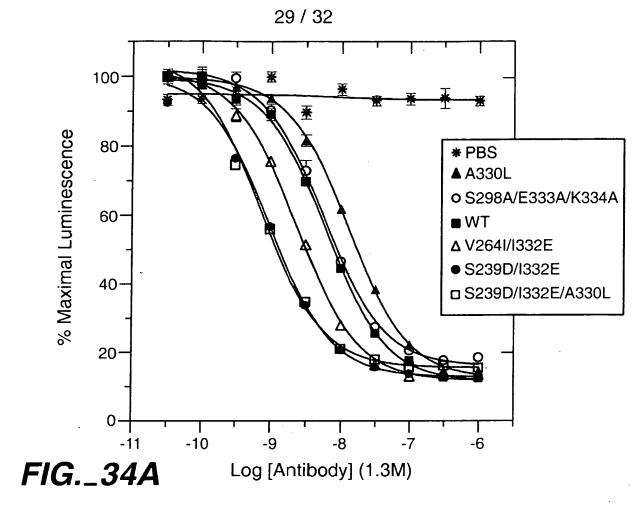


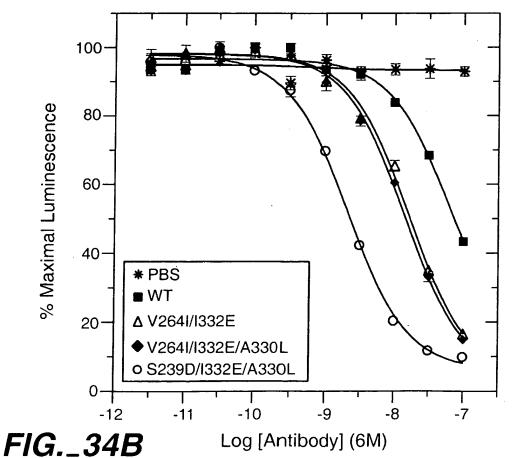


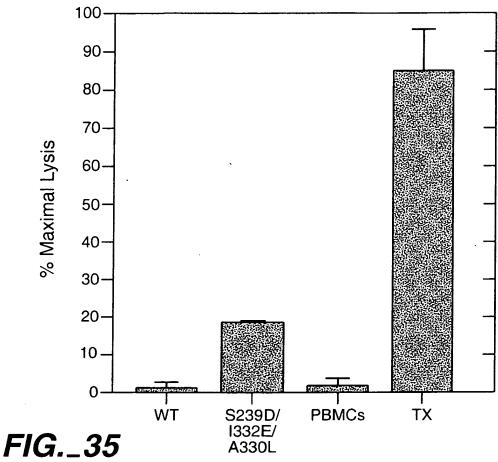


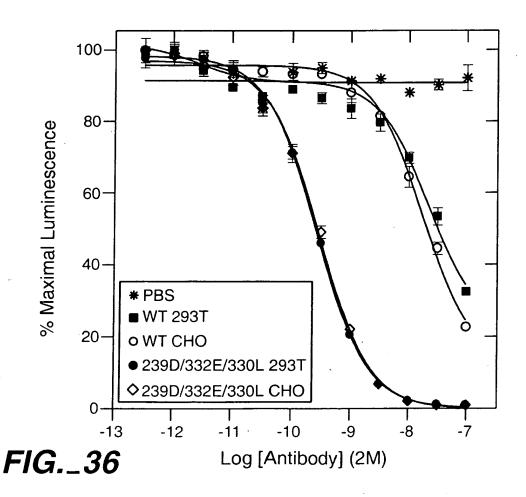


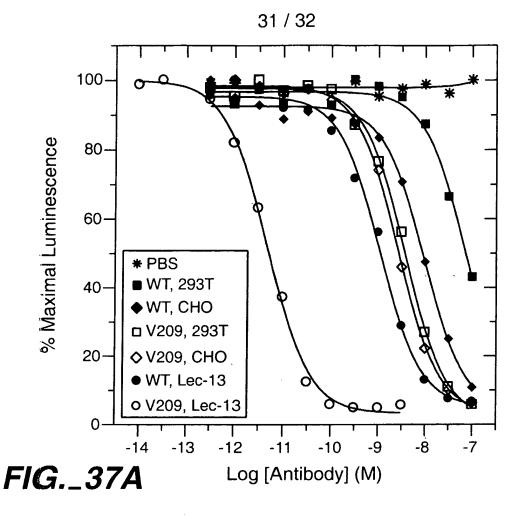


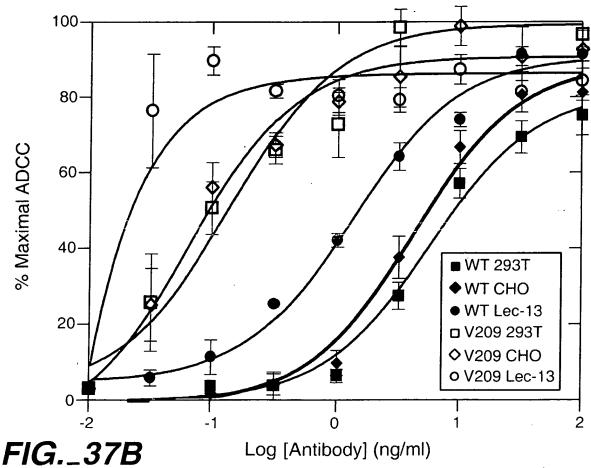












### SEQ ID NO: 3

## Anti-CD20 Light Chain

QIVLSQSPAILSASPGEKVTMTCRASSSVSYIHWFQQKPGSSPKPWIYATSNLASGVPVRFSGSGSG TSYSLTISRVEAEDAATYYCQQWTSNPPTFGGGTKLEIKRTVAAPSVFIFPPSDEQLKSGTASVVCL LNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLS SPVTKSFNRGEC

## FIG.\_38A

## SEQ ID NO: 4

## Anti-CD20 Heavy Chain

QVQLQQPGAELVKPGASVKMSCKASGYTFTSYNMHWVKQTPGRGLEWIGAIYPGNGDTSYNQKFKGK
ATLTADKSSSTAYMQLSSLTSEDSAVYYCARSTYYGGDWYFNVWGAGTTVTVSAASTKGPSVFPLAP
SSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQT
YICNVNHKPSNTKVDKKAEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVV
DVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAP
IEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVL
DSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

## FIG.\_38B

#### SEQ ID NO: 5

## Anti-CD20 Heavy Chain Comprising Possible Fc Variants

QVQLQQPGAELVKPGASVKMSCKASGYTFTSYNMHWVKQTPGRGLEWIGAIYPGNGDTSYNQKFKGK ATLTADKSSTAYMQLSSLTSEDSAVYYCARSTYYGGDWYFNVWGAGTTVTVSAASTKGPSVFPLAP SSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQT YICNVNHKPSNTKVDKKAEPKSCDKTHTCPPCPAPELLGGP $\mathbf{x_1x_2}$ FLFPPKPKDTLMISRTPEVTCV V $\mathbf{x_3}$ DVSHEDP $\mathbf{x_4}$ V $\mathbf{x_5}$ FNWYVDGVEVHNAKTKPREEQY $\mathbf{x_6Z_1}$ TYRVVSVLTVLHQDWLNGKEYKCKVSN  $\mathbf{z_2}$ ALP $\mathbf{x_7}$ P $\mathbf{x_8}$ EKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPEN NYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTOKSLSLSPGK

Position	WT	Possible Substitutions
X <sub>1</sub>	S	D, E, N, Q, T
X <sub>2</sub>	V	I, M
X <sub>3</sub>	V	I, T, Y
X <sub>4</sub>	Е	Υ
X <sub>5</sub>	K	Е
X <sub>6</sub>	N	D
X <sub>7</sub>	Α	Y, L, I
X <sub>8</sub>		D, E, N, Q
Z <sub>1</sub>	S	А
Z <sub>2</sub>	K	E, T

FIG. 38C

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